TREATY ON INTERNATIONAL COOPERATION IN THE AREA OF PATENTS

PCT

PRELIMINARY INTERNATIONAL REPORT ON PATENTABILITY

(Section II of the Treaty on International Cooperation in the Area of Patents)

Applicant's or Agent's File Ref. 51.773 WO	FOR FURTHER ACTION Se	e Form PCT/IPEA/416.		
International Application No.	International Filing Date (Month/Day/	(ear) Priority Date (Month/Day/Year) December 1, 2003		
PCT/EP2004/013581	November 30, 2004 (IPC) or National Classification and IPC	December 1, 2003		
G02B 23/12, G02B 27/01, G02B 23/18				
Applicant				
DURNER, Andreas et al.				
This preliminary international examination report has been prepared according to Article 35 by the agency authorized to conduct preliminary international examinations and is transmitted to the applicant according to Article 36.				
2. This REPORT consists of a total of 6 pages, including this cover sheet.				
3. This report is also accompanied by ATTACHMENTS, which include: a. ☒ (sent to the applicant and to the International Office) consisting entirely of pages, namely: ☒ Pages with the description, claims, and/or drawings, which have been revised and which form the basis of the present Report, and/or pages with corrections to which the Agency has agreed (see Rule 70.16 and Section 607 of the Administrative Guidelines). ☐ Pages which replace earlier pages, but which, in the opinion of the Agency, for the reasons indicated in Field No. 1, Section 4 and in the Supplemental Field, contain a change which exceeds the disclosure content of the international application in the originally filed version. b. ☐ (sent only to the International Agency) consisting entirely of (please indicate type and number of electronic data storage medium/media), which contain(s) the sequence protocol and/or the associated tables in computer-readable form only, as indicated in the Supplemental Field pertaining to the sequence protocol (see Section 802 of the Administrative Guidelines).				
This report contains information on the following items:				
☑ Field No. I Bas	sis of the report			
☐ Field No. II. Prid	·			
•		velty, inventive step, or commercial viability.		
	ck of unity of the invention.			
	ostantiated judgment under Article 35(2) Itions and explanations supporting this ju	concerning novelty, inventive step, or commercial viability;		
	tain documents cited			
	rtain defects in the international applicati			
☐ Field No. VI Ce	rtain observations on the international ap	pplication		
Filing date of the request:		Date of completion of this report:		
June 30, 2005		September 12, 2005		
Name and mailing address of the	office assigned to perform the	Authorized Officer:		
preliminary examination: European Patent Office		Daffner, M.		
D-80298 Munich				
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Form PCT/IPEA/409 (Cover Page) (January 2004)

PRELIMINARY INTERNATIONAL REPORT ON PATENTABILITY

International File No.: PCT/EP2004/013581

Field No. I. Basis of the Report			
1.		Vith respect to language, this Report is based on the international application n the language in which the application was filed, unless otherwise indicated in this section.	
	language of the □ internationa □ publication	ased on a translation from the original language to the following language, which is the translation filed for the following purpose: I search (under Rules 12.3 and 23.1(b)). of the international application (under Rule 12.4). international examination (under Rule 55.2 and/or Rule 55.3).	
2.	With regard to the elements of the international application, this Report is based on (<i>replacement pages</i> which were submitted to the application office in compliance with the request according to Article 14 are considered "originally filed" and are not attached to the application, because they do not contain any charges.		
	Specification, pag	ges:	
	1-17	as originally filed	
	Claims, Nos.:		
	1-29	received on July 21, 2005 with letter of July 15, 2005	
	Drawings, Pages:		
	1/6-6/6	as originally filed	
	☐ a sequence pro protocol.	tocol and/or any associated tables – see Supplemental Field pertaining to the sequence	
3.	As a result of the changes, the following documents have been omitted: the specification, pages: the claims, nos.: the drawings, sheets/figures: the sequence protocol (give precise information): any tables belonging to the sequence protocol (give precise information):		
4.	 □ This report has been prepared without consideration of (some of) the changes attached to this report and listed below, because, in the opinion of Agency, for the reasons given in the Supplemental Field, they exceed the disclosure content in the originally filed version (Rule 70.2c). □ the specification, pages: □ the claims, nos.: □ the drawings, sheets/figures: □ the sequence protocol (give precise information): □ any tables belonging to the sequence protocol (give precise information): 		
	If Section 4 app "replaced".	clies, some or all of these pages can be provided with the comment	

PRELIMINARY INTERNATIONAL REPORT ON PATENTABILITY

International File No.: PCT/EP2004/013581

V. Substantiated judgment according to Article 35(2) with respect to novelty, inventive activity, and commercial viability; documents and declarations in support of this judgment.

1. Judgment

Novelty (N)

Yes:

Claims 3, 6-29

No:

Claims 1, 2, 4, 5

Inventive Activity (AI):

Yes:

Claims

No:

Claims 1-29

Commercial Viability (CV):

Yes:

Claims 1-29

No:

Claims

2. Documents and Explanations (Rule 70.7):

See attached page.

PRELIMINARY INTERNATIONAL REPORT ON PATENTABILITY (SUPPLEMENTAL PAGE)

International File No.:

PCT/EP2004/013581

The examination was based on Claims 1-29 in the version received with the letter of July 15, 2005.

The documents cited in the office action are numbered in the sequence in which they occur in the search report:

- D1: WO 97/09652 A (B.V. OPTISCHE INDUSTRIE "DE OUDE DELFT")
- D2: WO 02/077670 A (WILDER, DAVID; DURNER, ANDREAS)
- D3: EP-A-1 273 958 (CANON KABUSHIKI KAISHA)
- D4: US-A-6 046 712 (BELLER ET AL)
- D5: WO 02/059654 A (NIGHT VISION CORPORATION; KOLLSMAN, INC; FILIPOVICH, DANNY; FIORE, JAC)
- The characterizing clause of Claim 1 is unclear, because it is impossible to determine what the detectable image is and what "real relationships" are in a direct view without restriction.
 In addition, the expressions "dimensions of the displayed image" and the "working together" of the camera, the display means, and the eyepiece lens are vague. It is not clear how these components work together.
- 2. The electronic spectacles according to Claim 1 are anticipated, for example, by the electronic spectacles according to document D1 (WO 97/09652):

Document D1 discloses electronic night-vision spectacles (see Abstract) comprising:

- an electronic camera integrated into the spectacles as primarily recording means for the user of the spectacles, the camera being provided with an objective lens and a CCD sensor;
- an image-processing unit downline from the camera, which electronically processes the image recorded by the camera and sends an output signal to the display means assigned to each eye for reproduction of the image (see page 11, lines 11-28), and
- an eyepiece lens, which is downline from each display means (see, for example, Fig. 6), where the camera, the display means, and the eyepiece lens are designed to work together in such a way that the dimensions of the displayed image which the user can detect during use corresponding to the real relationships which the user would see in a direct view without restriction (see Figs. 1, 6, and 8, page 5, line 34 to page 6, line 8, blending of images).
- 3. The following dependent claims do not contain any features which, in combination with the features of any of the claims to which they refer, fulfill the requirements of the PCT with respect to novelty or inventive activity. The reasons for this are as follows:
- 3.1. Claim 2, concentric alignment, see document D1, Figs. 7 and 8.
- 3.2. Claim 3, adjustable focus, is state of the art in the form of so-called "diopter adjustment". See also document D2 (WO 02/077670), page 10, lines 4-10.
- 3.3. Claims 4-5, two cameras: see document D1.
- 3.4. Claims 6 and 7, fixed carrier: see, for example, document D2, Fig. 6.
- 3.5. Claims 8-13 define details of the sensors which are more-or-less obvious for a night-vision module.
- 3.6 Claims 14-23 appear to be conventional in the field of CCD technology.
- 3.7. Claim 24: Synchronization appears necessary to reproduce a stereoscopic image. Thus synchronization does not appear to be inventive, even if it is not demanded explicitly in the document.

PRELIMINARY INTERNATIONAL REPORT ON PATENTABILITY (SUPPLEMENTAL PAGE)

International File No.:

PCT/EP2004/013581

- 3.8. Claim 25 defines standard image screens.
- 3.9. Claims 26 and 27, battery, see document D2, Claim 20.
- 3.10. Claim 28: display of additional information, see, for example, document D5 (WO 02/059654, page 23, line 31, to page 24, line 9).
- 3.11. Claim 29, interface: see, for example, document D2, Claim 24, or document D4 (US 6,046,712).